

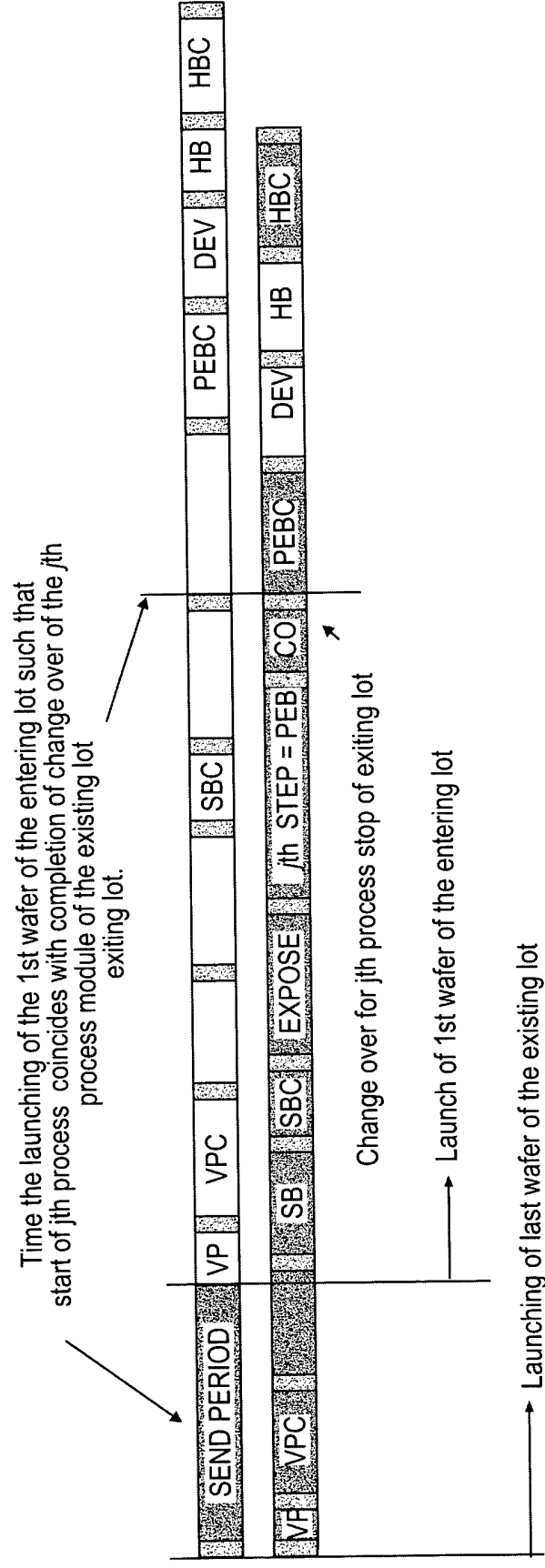


Fig. 12

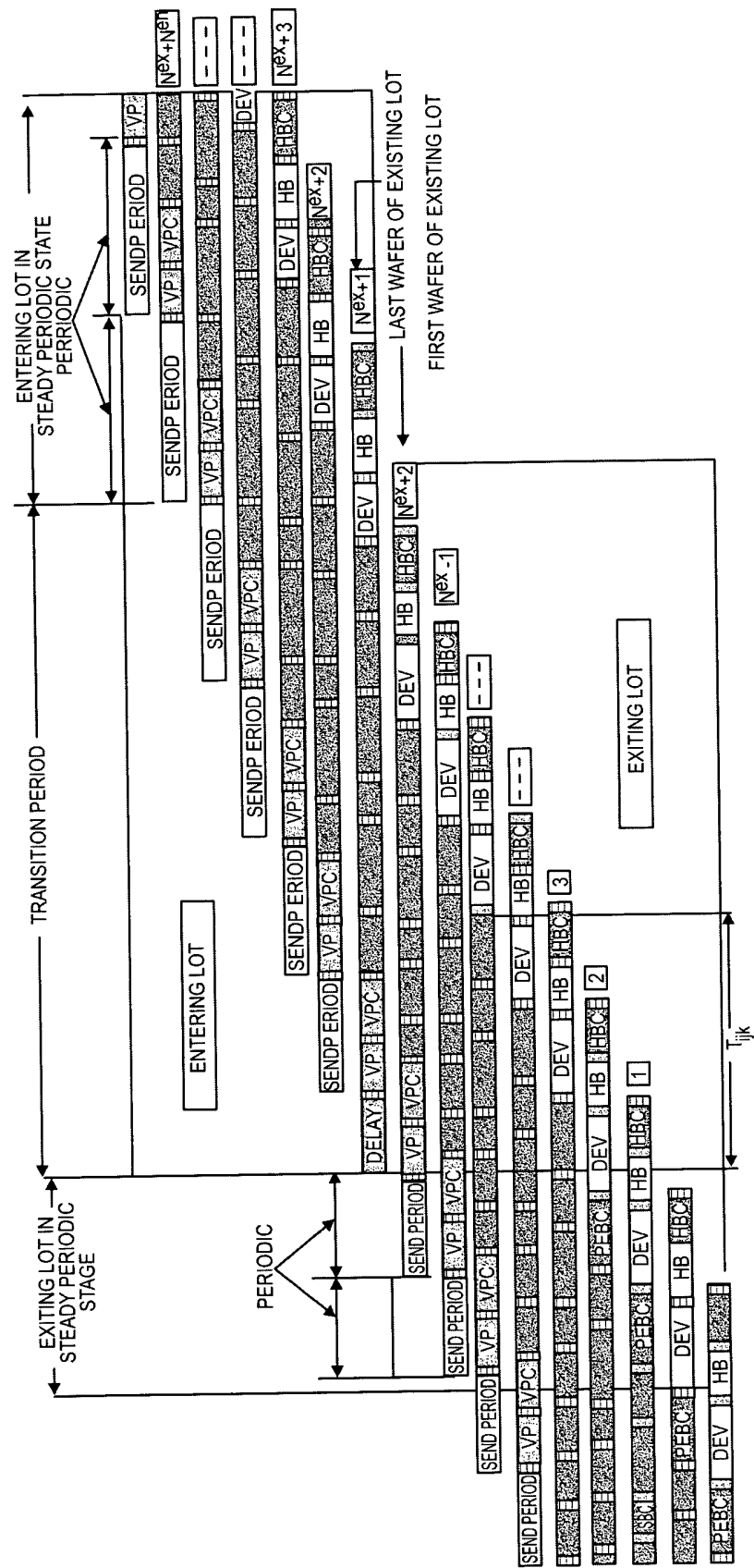


Fig. 11

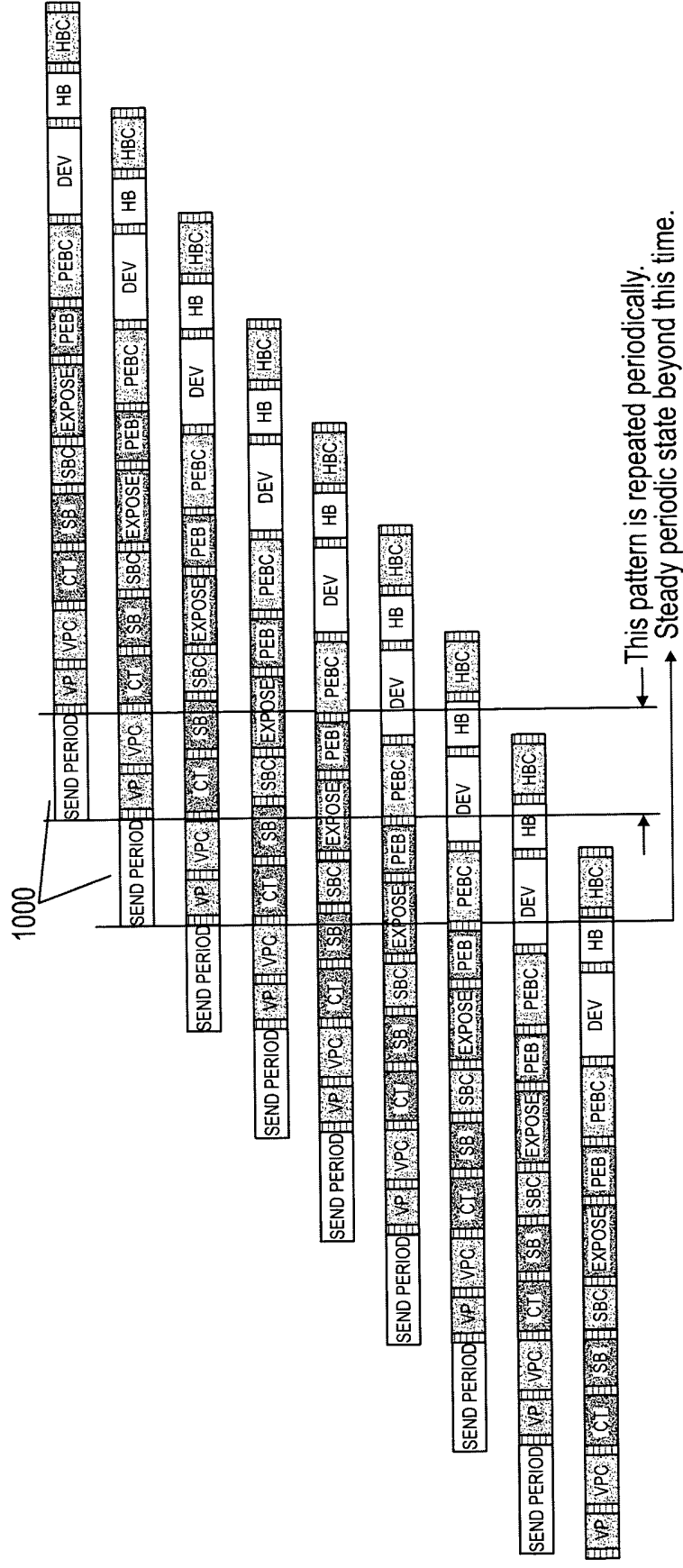


Fig. 10

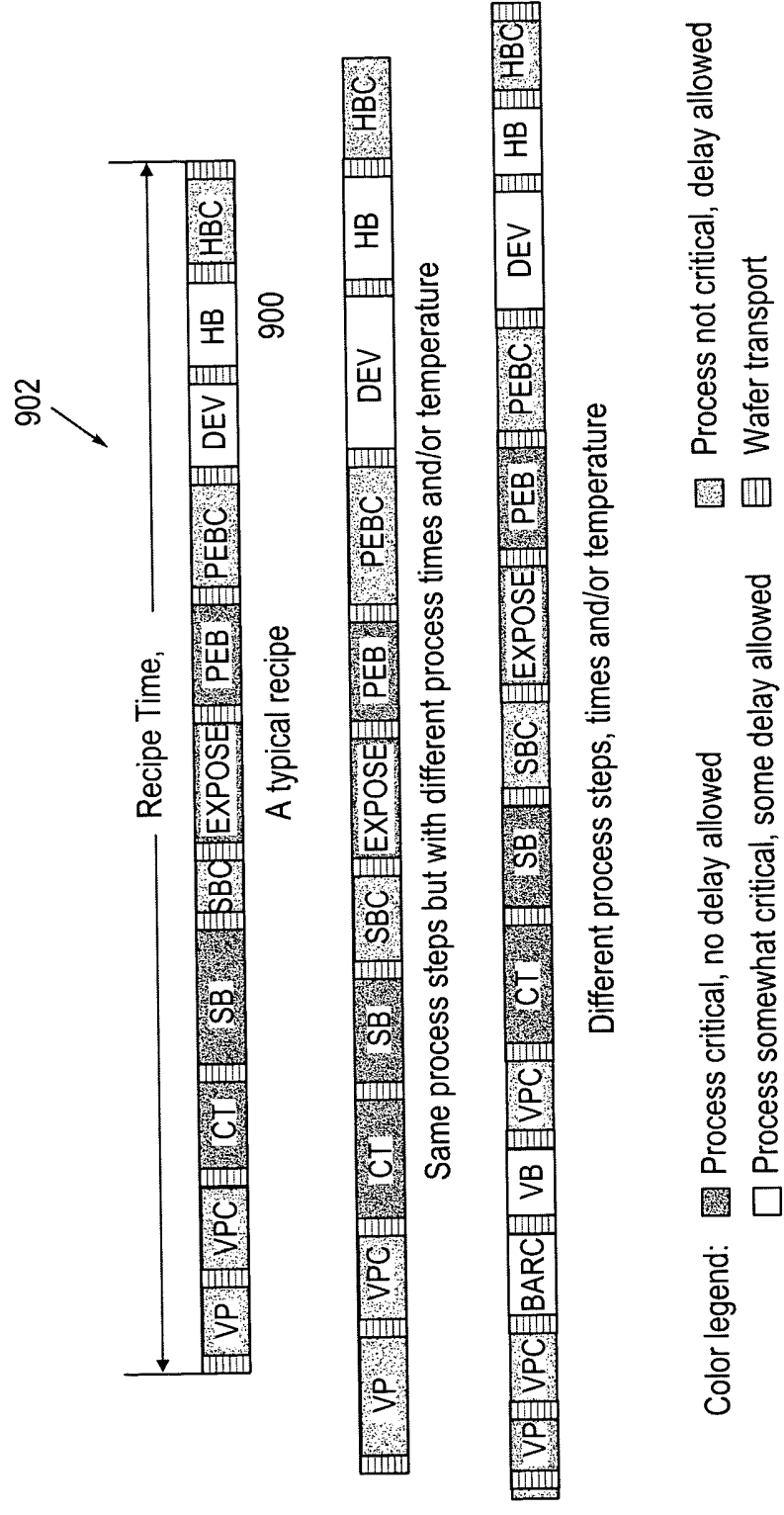
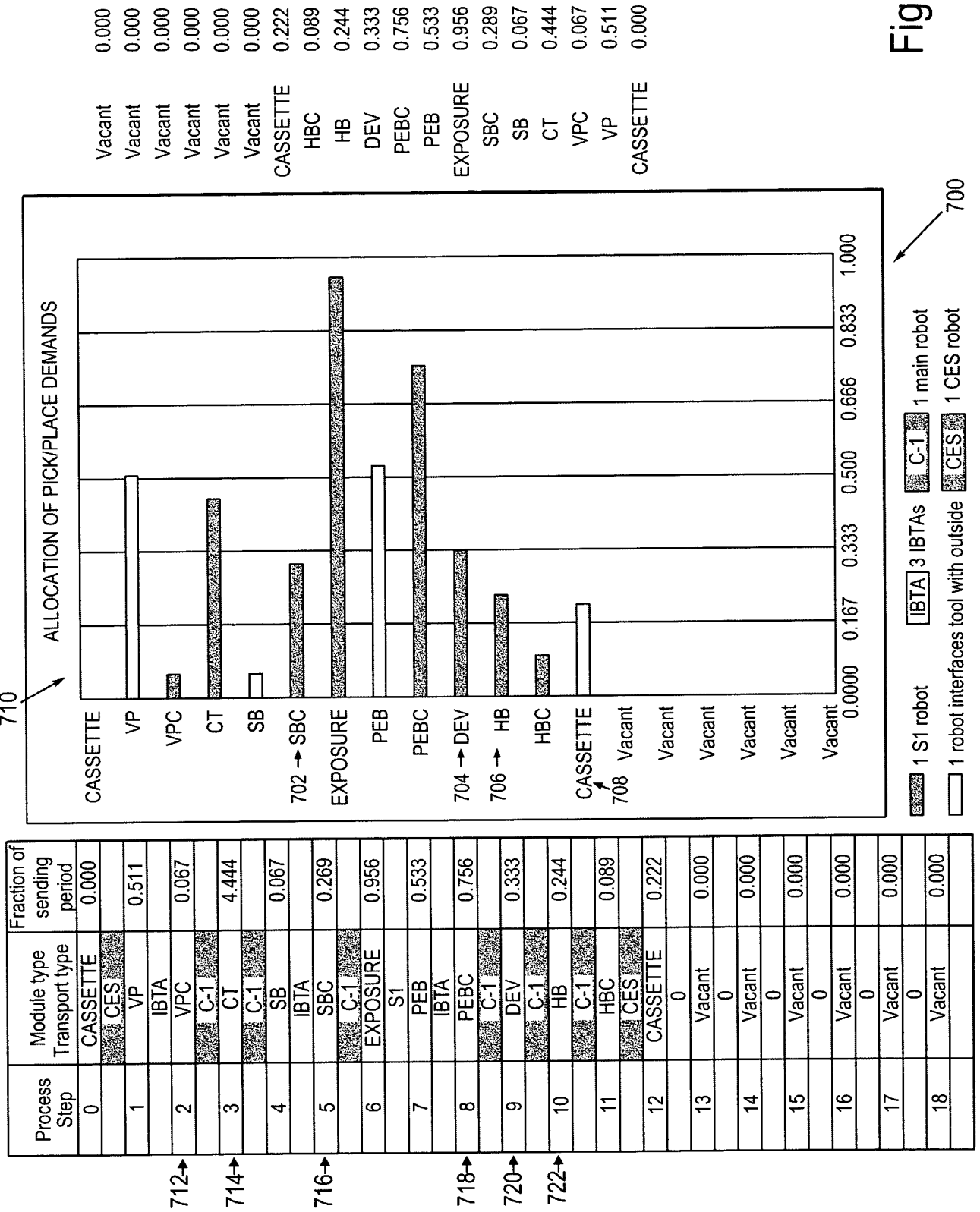


Fig. 9



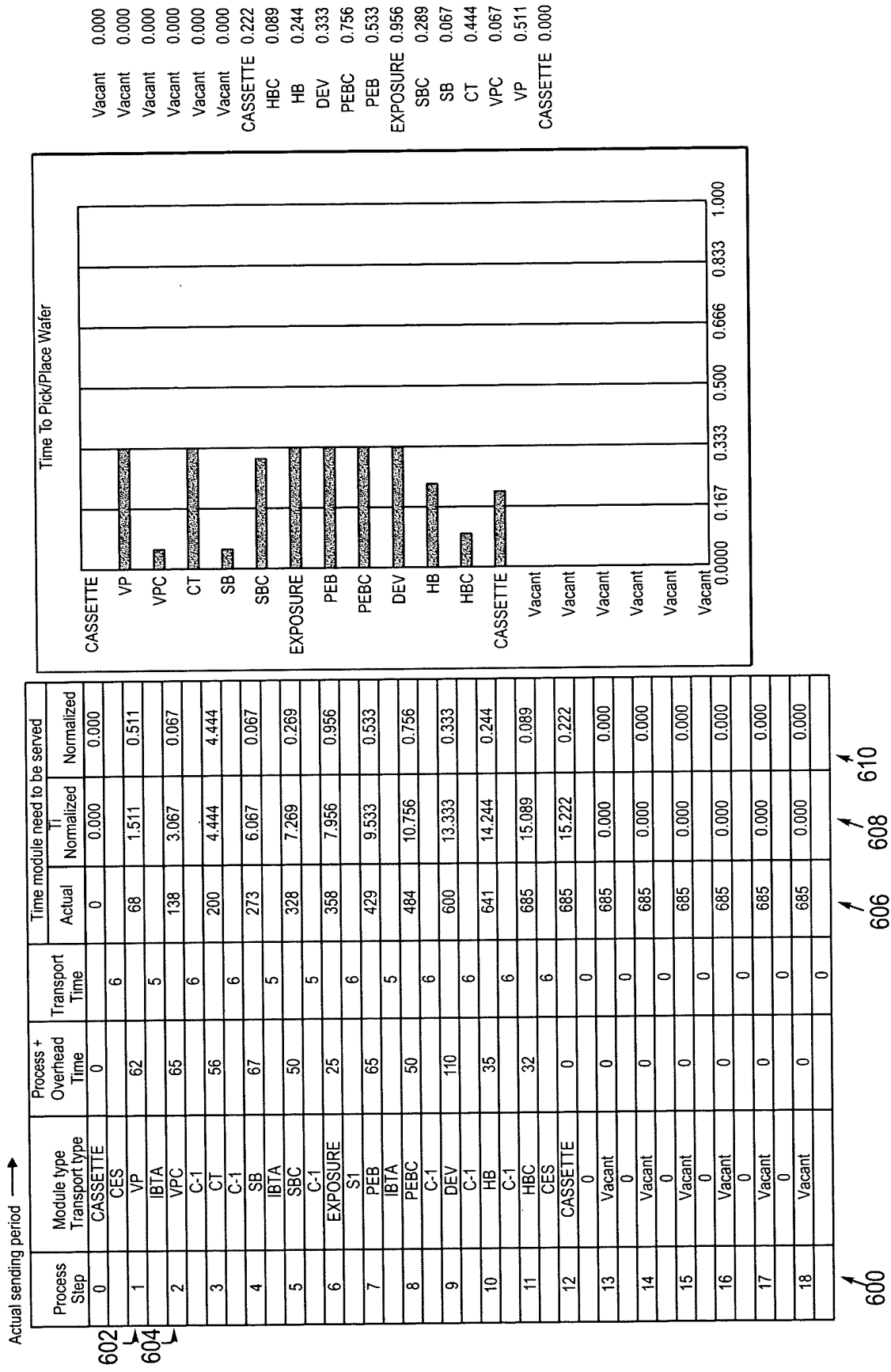


Fig. 6

Module Type	Process Time	Overhead Time	Process + Overhead
VP	52	10	62
VPC	60	5	65
CT	46	10	56
SB	60	7	67
SBC	45	5	50
PEB	60	5	65
PEBC	45	5	50
DEV	100	10	110
HB	25	10	35
HBC	22	10	32
EXPOSURE	10	15	25
OEBR	20	5	25
TARC	60	10	70
BARC	60	6	66
More?			

Transport Type	Trnsport Time
CES	6
Captive-1	6
Captive-2	6
SI	6
IBTA	5
More?	

LOAD-LOCK = CASSETTE

System throughput, (WPH) →		80 →		504 →		506 →		508 →	
System takt time (sec/water) →		45 →							
Process Step	Module type Transport used	Process + Overhead Time	Transport Time	Module Takt Time	Number of Modules Required	Funda- mental Period			
0	CASSETTE	0	6	0					
1	CES VP	62	5	74	2	20.00			
2	IBTA VPC	65	6	75	2	38.00			
3	C-1 CT	56	6	68	2	38.50			
4	C-1 SB	67	5	79	2	38.50			
5	IBTA SBC	50	5	60	2	20.00			
6	EXPOSURE S1	25	6	35	1	28.00			
7	PEB IBTA	65	5	77	2	34.25			
8	PEBC C-1	50	6	60	2	37.50			
9	DEV C-1	110	6	122	3	35.00			
10	HB C-1	35	6	47	2	35.00			
11	HBC CES	32	6	44	1	37.50			
12	CASSETTE	0	0	12	1	32.50			
13	Vacant	0	0						
14	Vacant	0	0						
15	Vacant	0	0						
16	Vacant	0	0						
17	Vacant	0	0						
18	Vacant	0	0						
502						No. Of Modules	22	38.5	
						Minimum sending rate	→	45	
						Actual sending rate	→	45	

Fig. 5

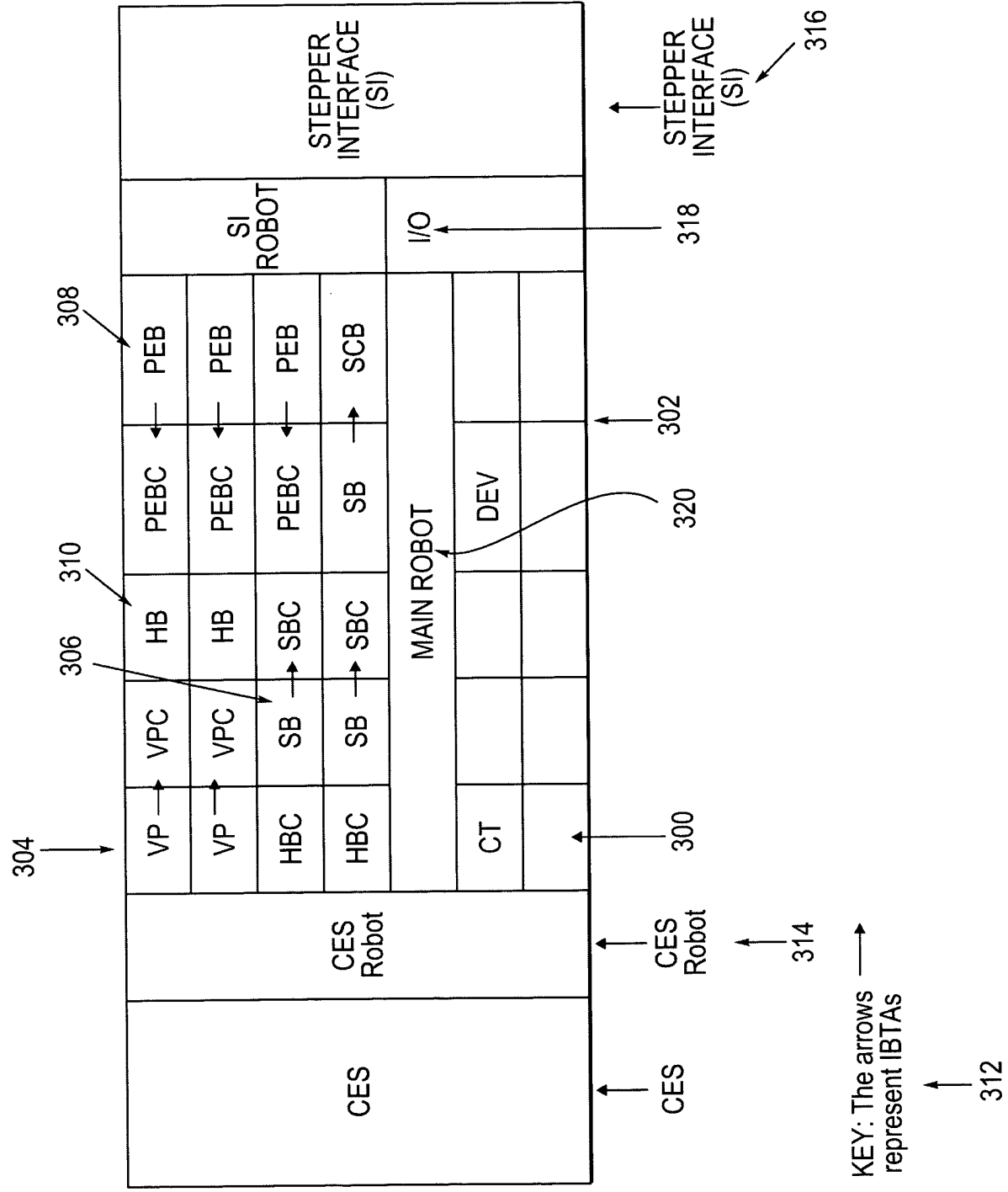


Fig. 3

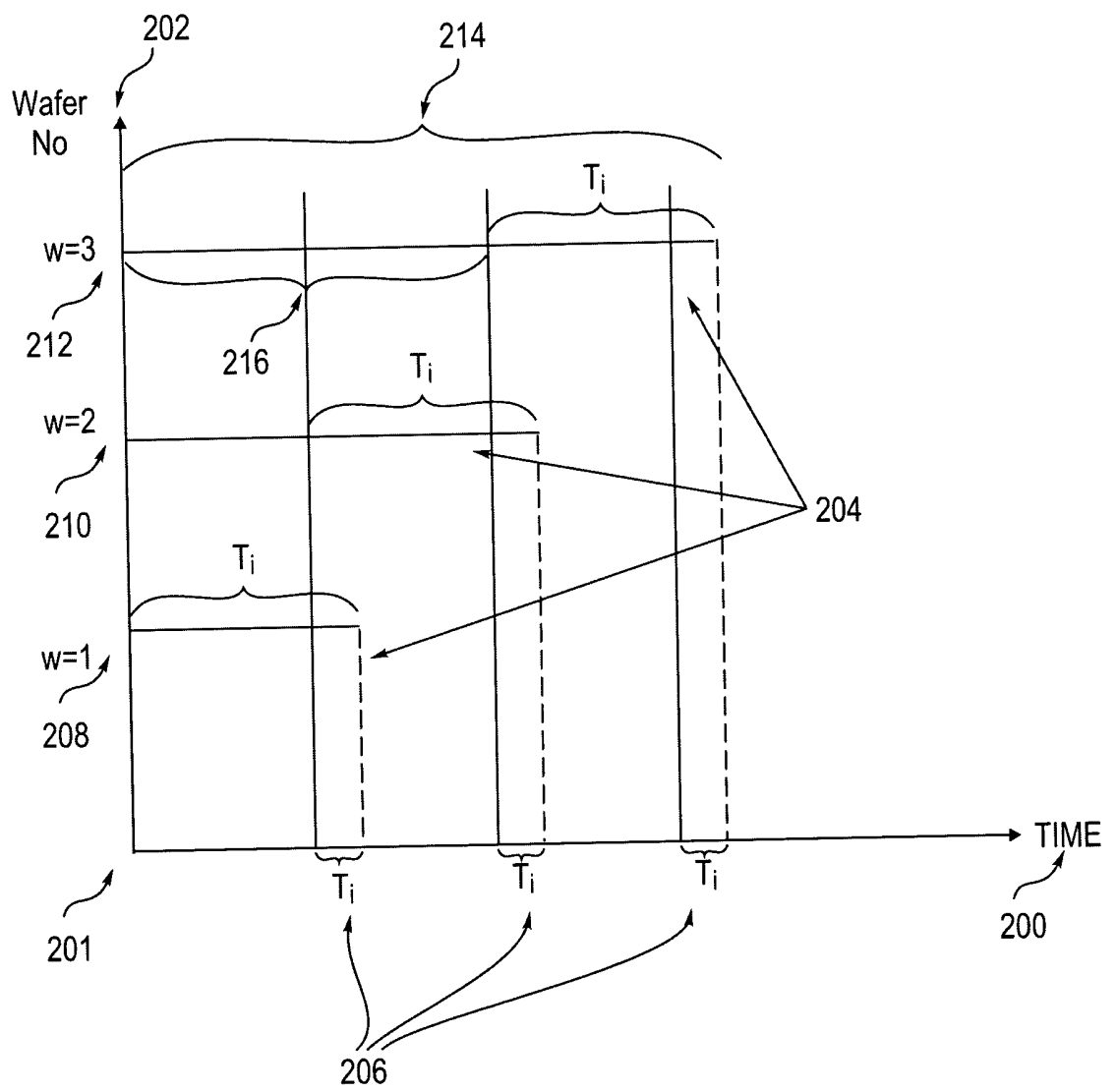


Fig. 2

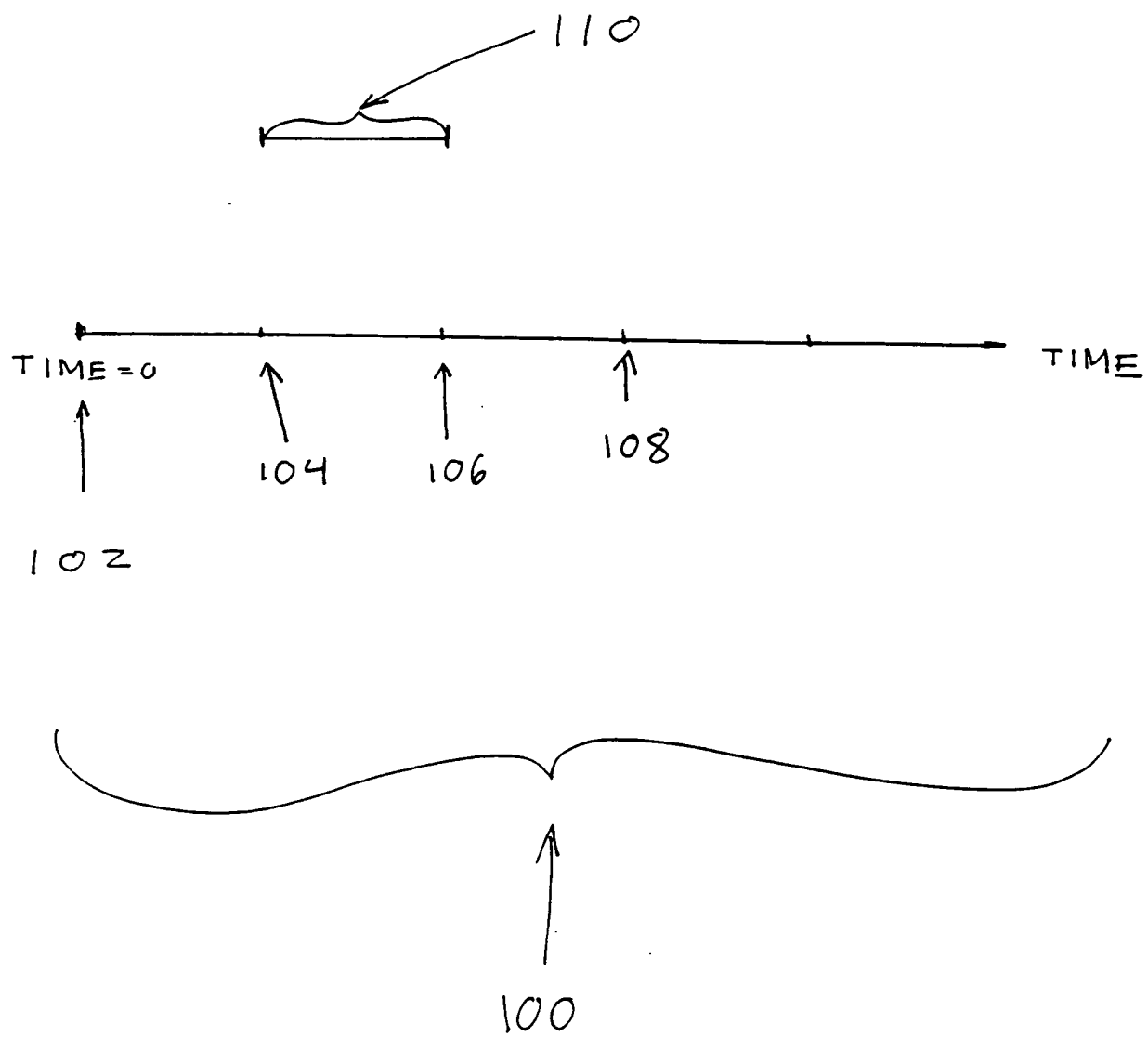


Figure 1